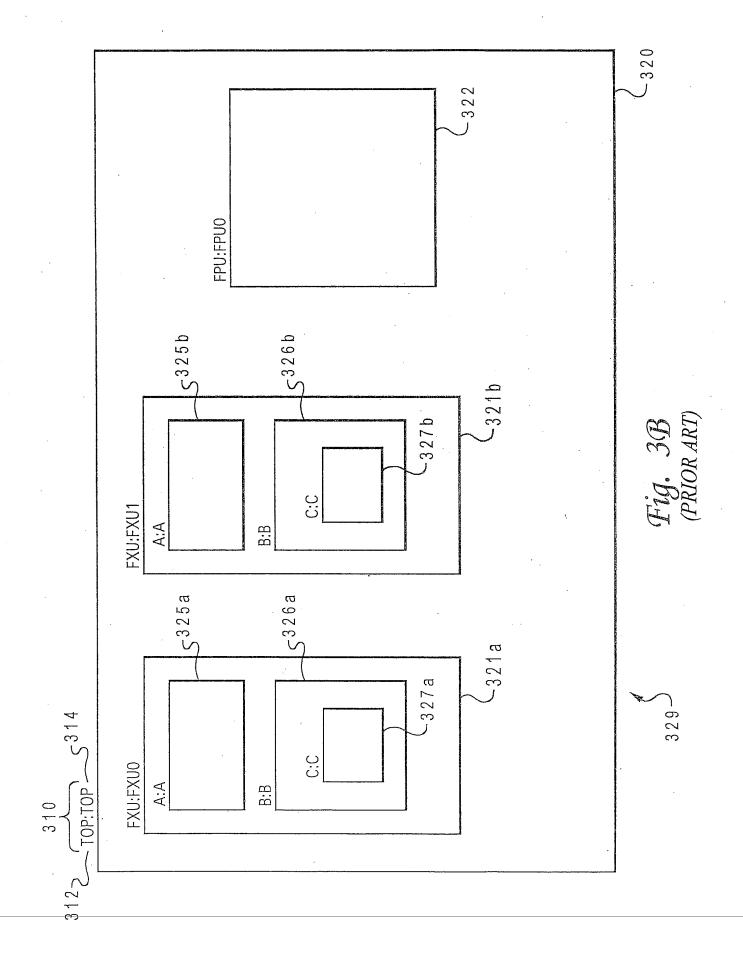
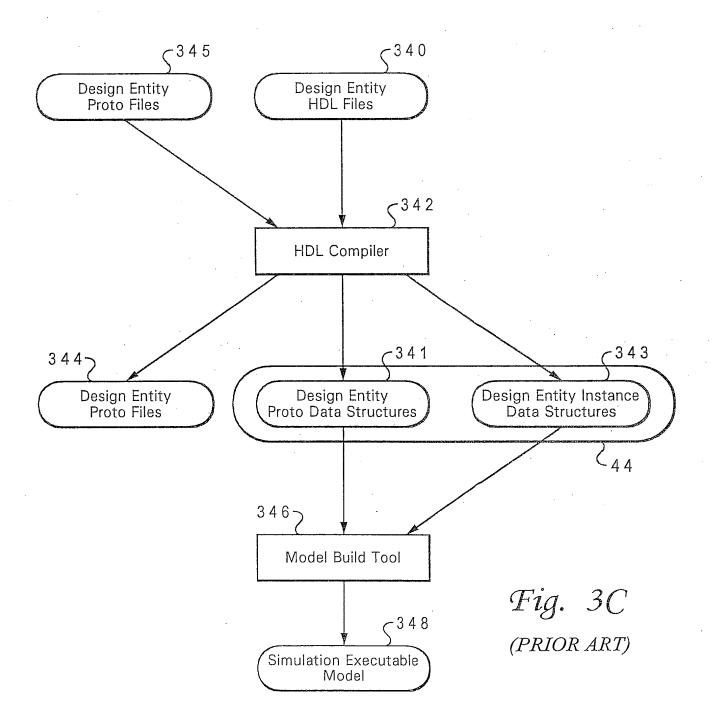
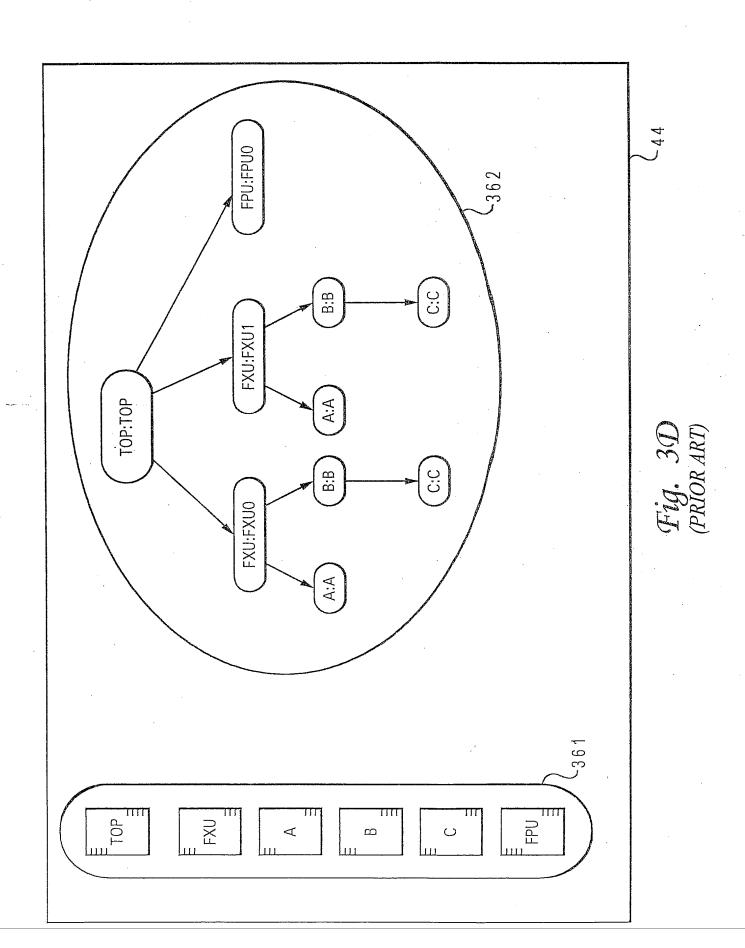


Fig. 3A
(PRIOR ART)







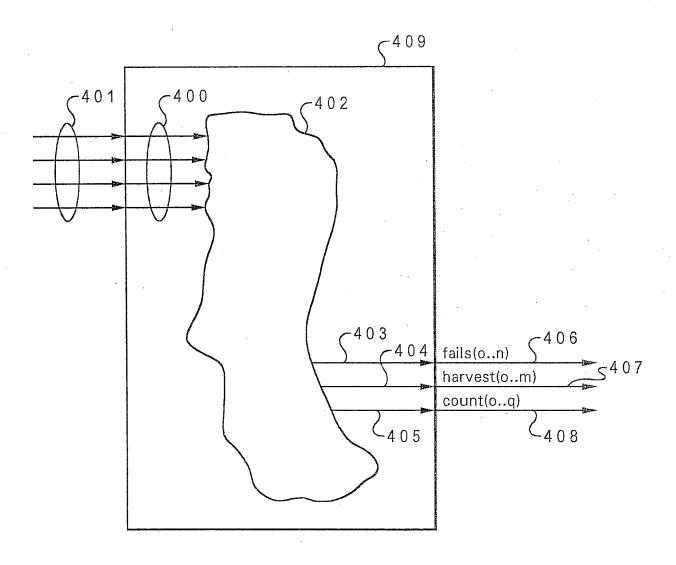
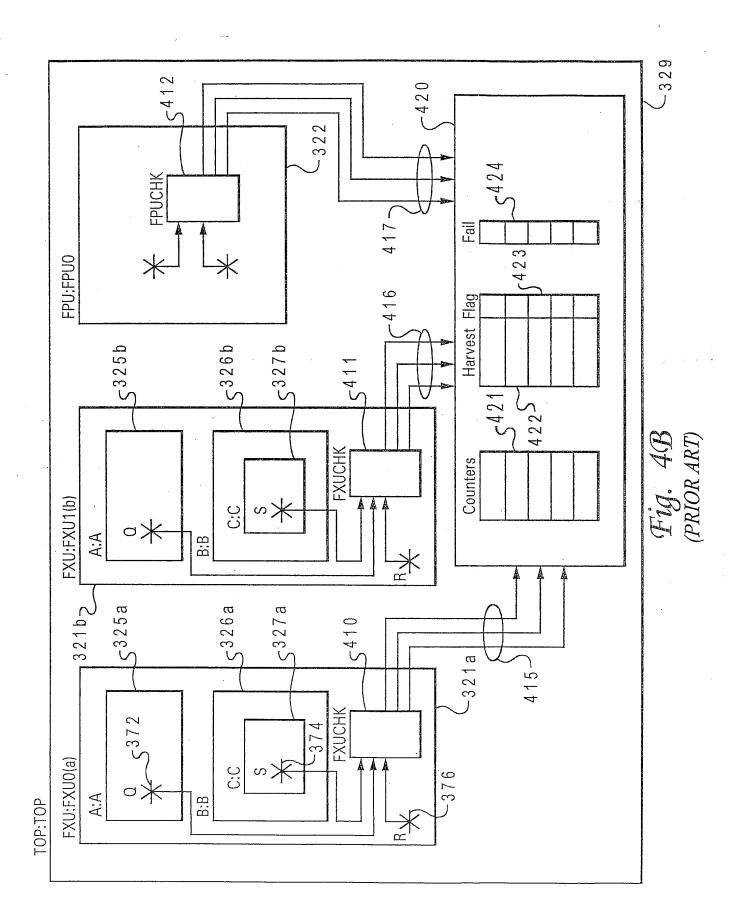


Fig. 4A
(PRIOR ART)



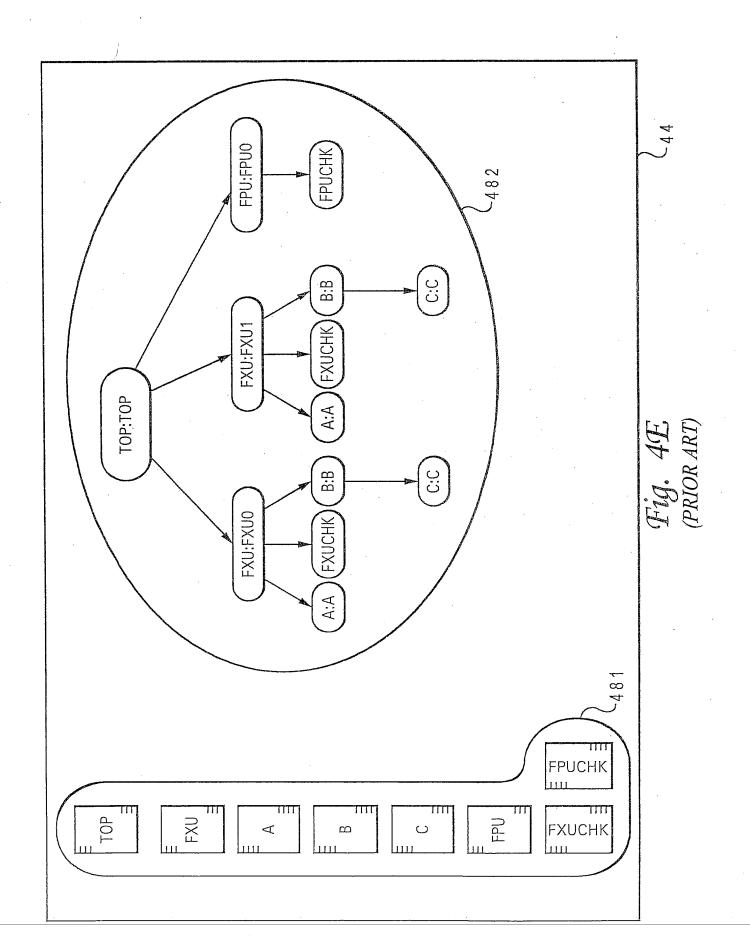
```
ENTITY FXUCHK IS
               PORT(
                          SIN
                                              IN std ulogic;
                          Q IN
                                              IN std ulogic;
                          RIN
                                              IN std ulogic;
                                                                                     450
                          clock
                                              IN std ulogic;
                                              OUT std ulogic vector(0 to 1);
                          fails
                                        : OUT std ulogic vector(0 to 2);
                          counts
                          harvests
                                              OUT std ulogic vector(0 to 1);
                      );
         --!! BEGIN
         --!! Design Entity: FXU;
          --!! Inputs
         --!! S_IN => B.C.S;

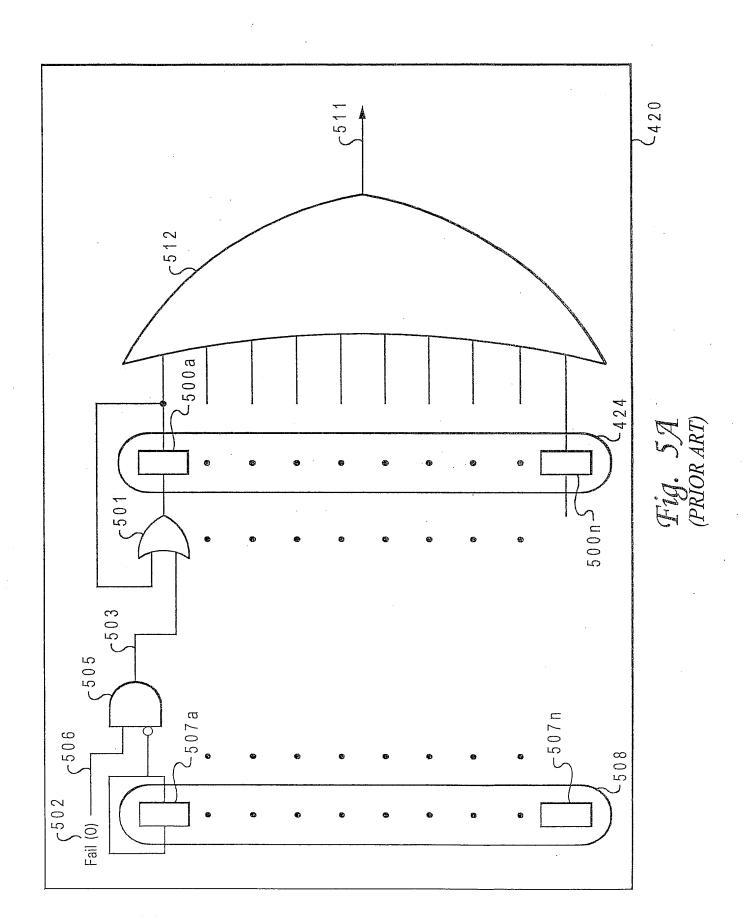
--!! Q_IN => A.Q;

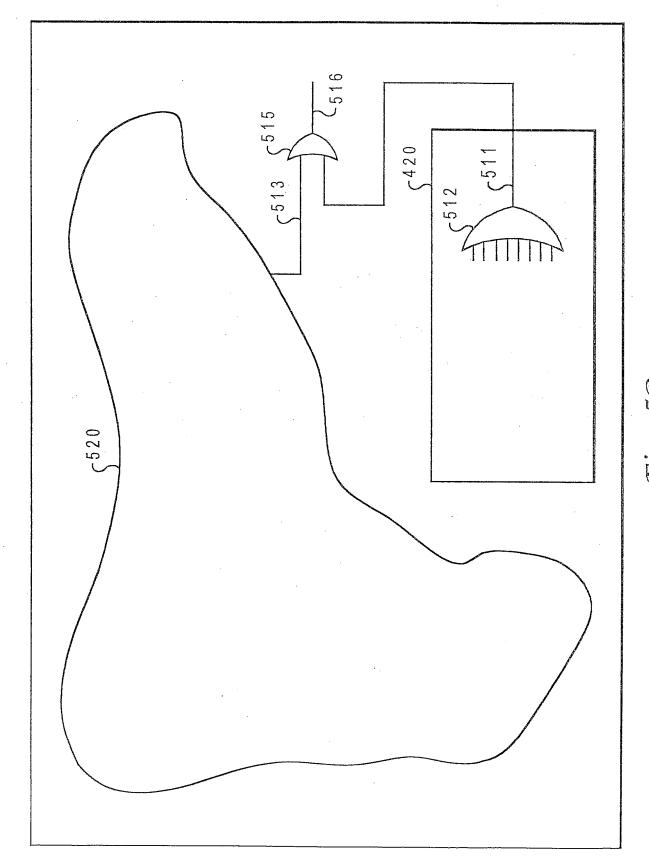
--!! R_IN => R;

--!! CLOCK => clock;
          --!! End Inputs
         --!! Fail Outputs;
         --!! O: "Fail message for failure event O";
                                                                                               440
         --!! 1: "Fail message for failure event 1";
         --!! End Fail Outputs;
                                                              451
          --!! Count Outputs;
          --!! 0 : <event0> clock;
         --!! 1 : <event1> clock;
         -!! 2: <event2> clock;
         --!! End Count Outputs;
         --!! Harvest Outputs;
         --!! O: "Message for harvest event 0";
--!! 1: "Message for harvest event 1";
         --!! End Harvest Outputs;
457 < -!! End;
         ARCHITECTURE example of FXUCHK IS
         BEGIN
               ... HDL code for entity body section ...
          END;
```

Fig. 40
(PRIOR ART)







PRIOR ART

